

Fig. 1 (PRIOR ART).

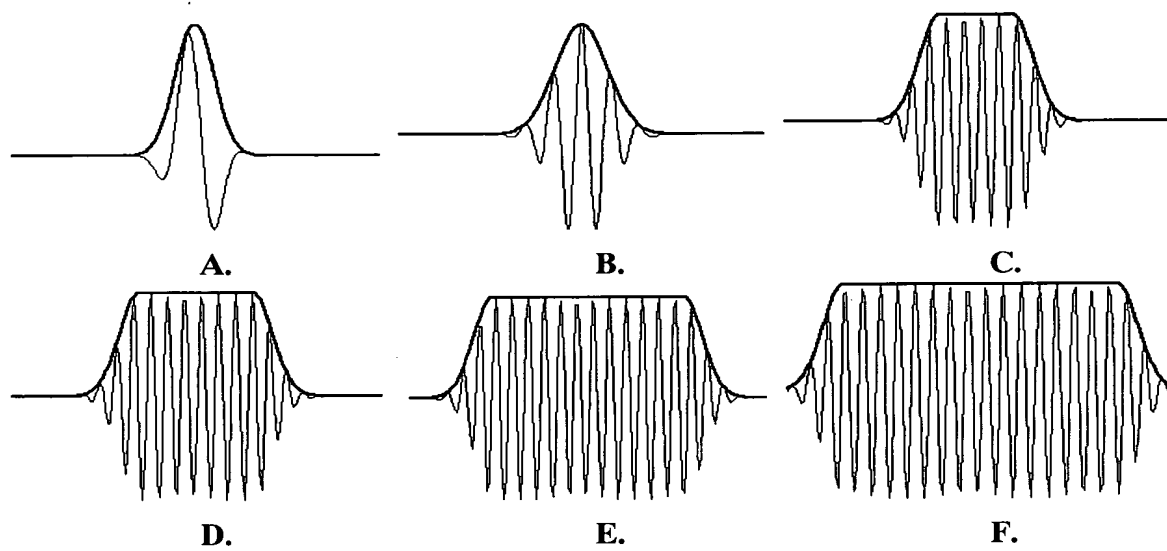
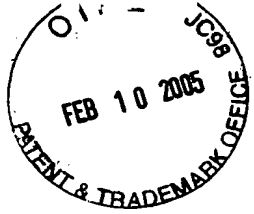


Fig. 2 (PRIOR ART).



Bandwidth Efficiency

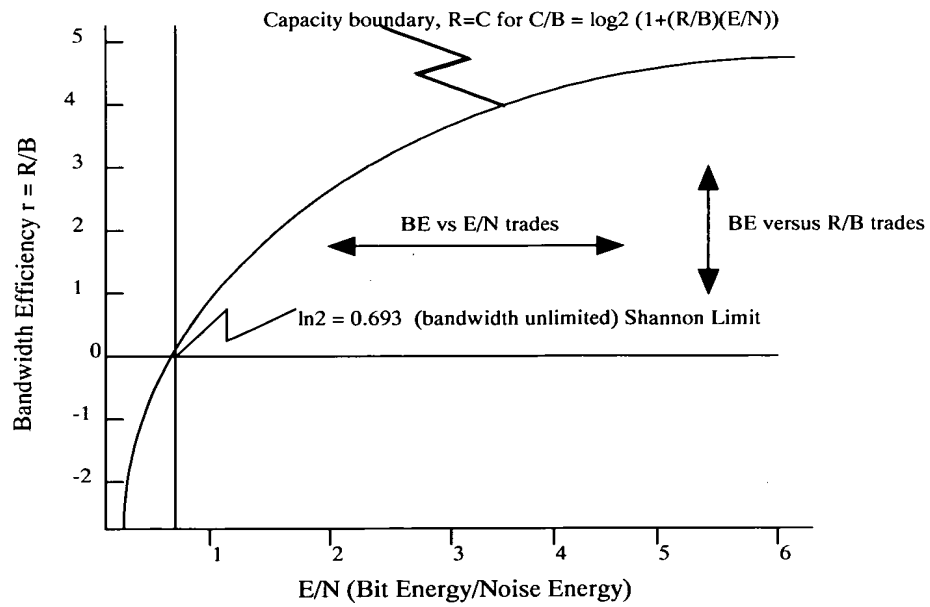


Fig. 3 (PRIOR ART).

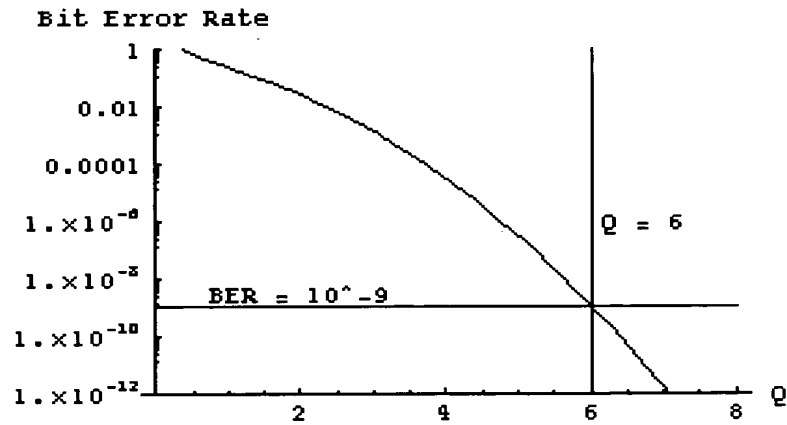
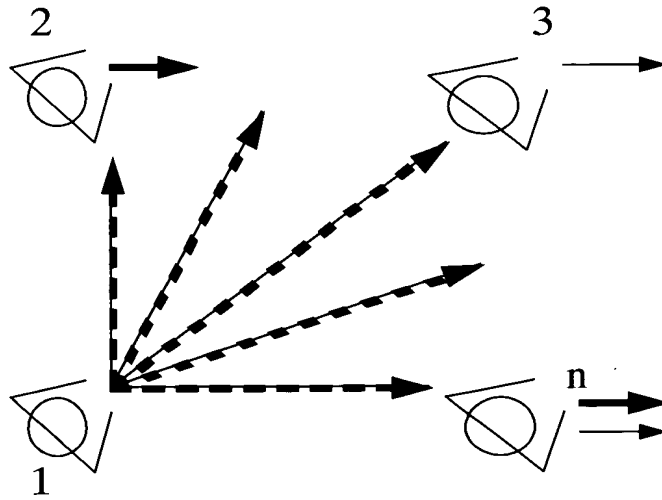
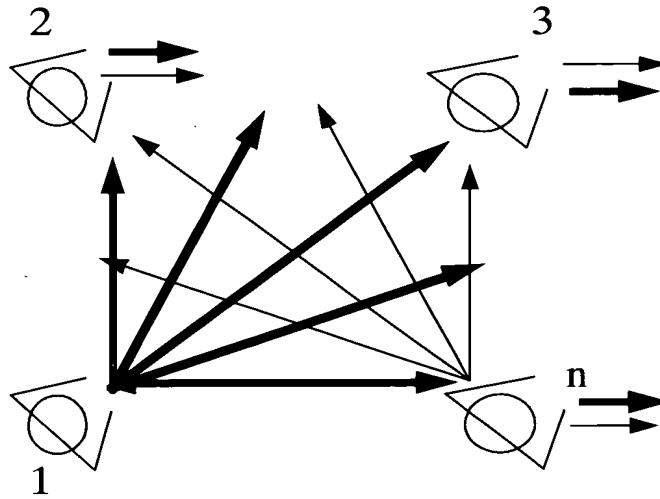


Fig. 4 (PRIOR ART).



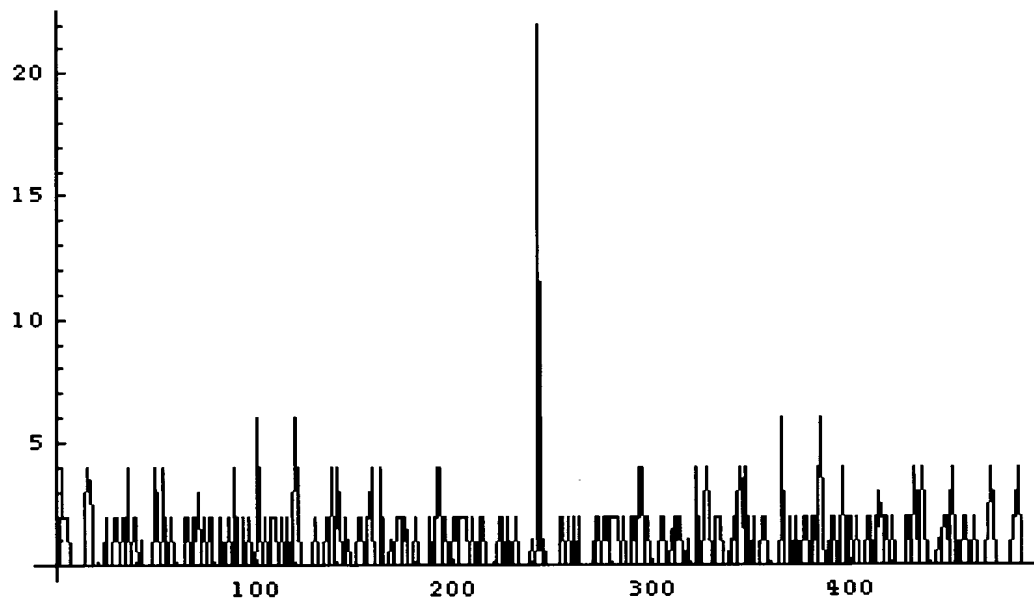
A. TDMA



B. CDMA

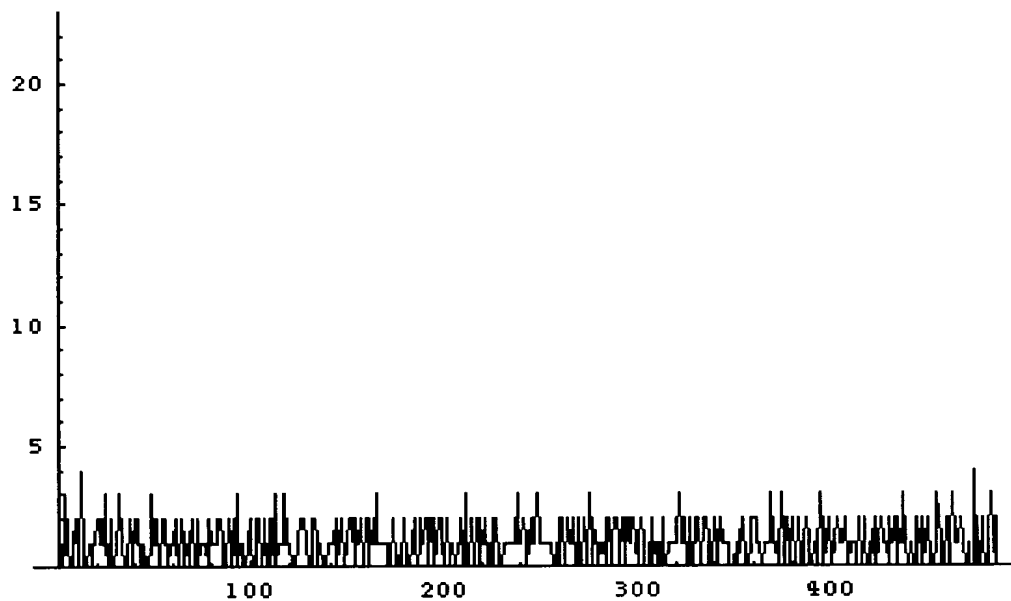
Fig. 5.

Hyperbolic Congr.Code: $p = 23$, $n = 1$, Autocorr.



6A.

Hyperbolic Congr.Code: $p = 23$, $n = 1 \ \& \ 2$, Crosscorr.



6B.

Fig. 6.

MAXIMUM AGGREGATE DATA RATES, Asynchronous CDMA, @1 GHz, P=1021,
BER= 10^{-9} , SNR=21.6 dB

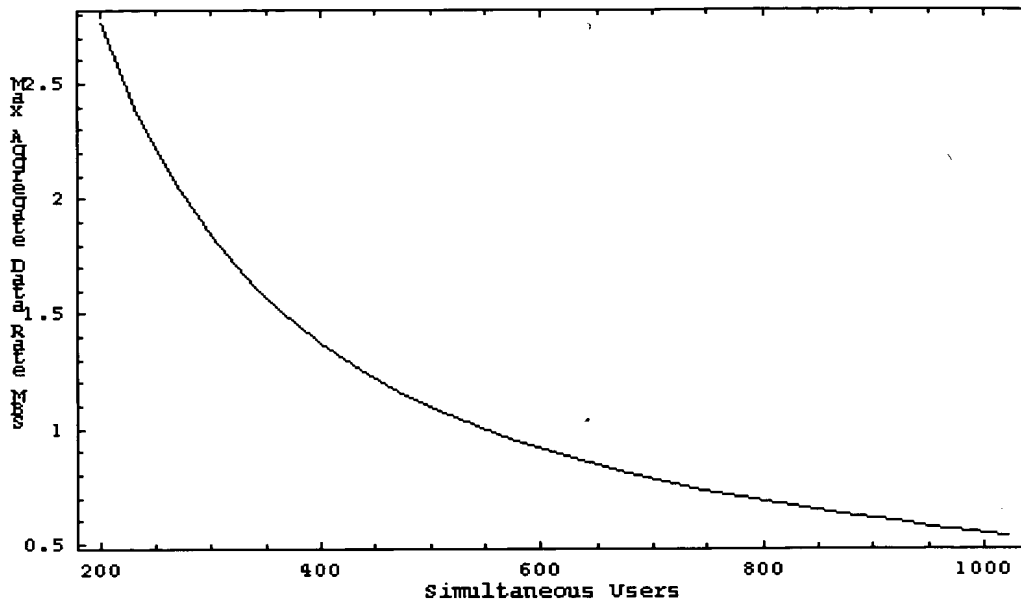


Fig. 7.

MAXIMUM AGGREGATE DATA RATES, Asynchronous CDMA, @1 GHz, P=257,401,601,
1021,1399, BER= 10^{-9} , SNR=21.6 dB

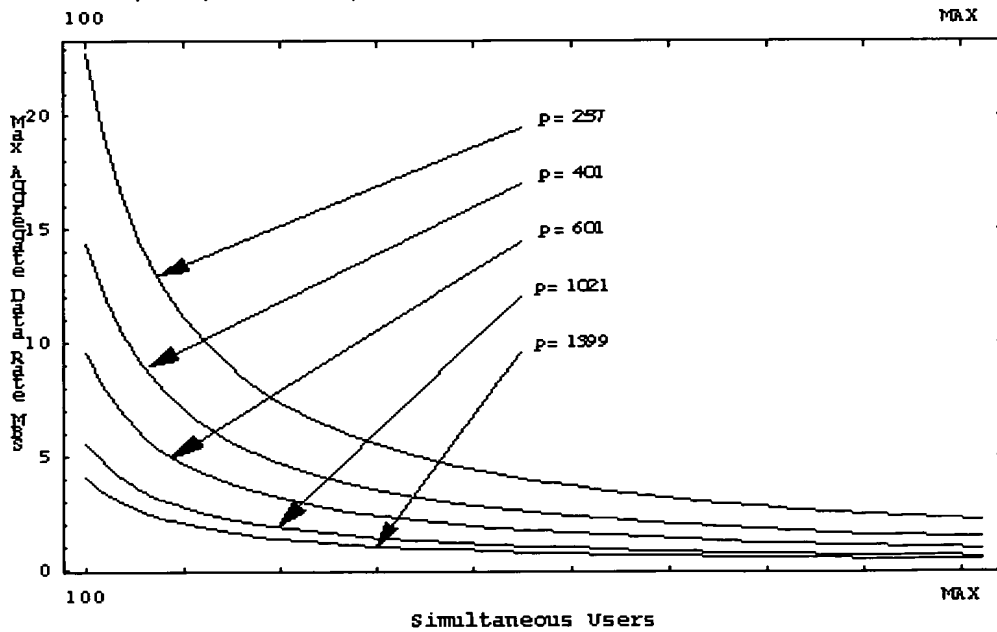


Fig. 8.

MAXIMUM SINGLE CHANNEL DATA RATES, Asynchronous CDMA, @1 GHz, P=1021,
BER= 10^{-9} , SNR=21.6 dB

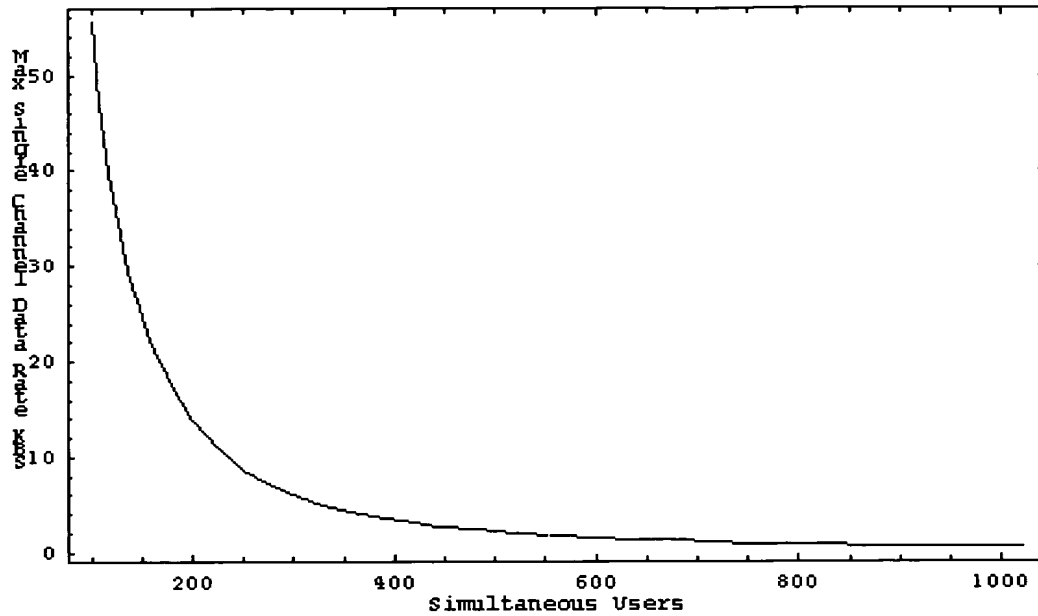
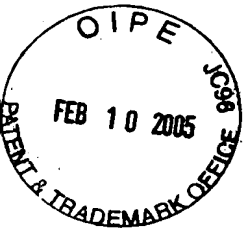


Fig. 9.

MAXIMUM SINGLE CHANNEL DATA RATES, Asynchronous CDMA, @1 GHz, P=1021,
BER= 10^{-9} , SNR=21.6 dB

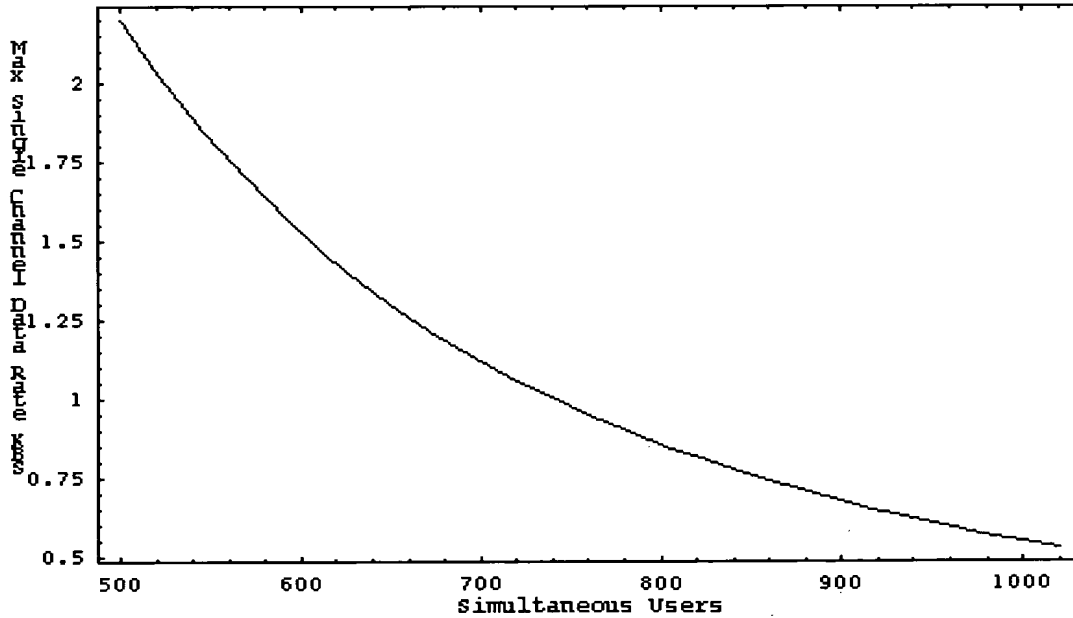


Fig. 10.

MAXIMUM SINGLE CHANNEL DATA RATES, Asynchronous CDMA, @1 GHz, P=257,
401, 601, 1021, 1399, BER=10⁻⁹, SNR=21.6 dB

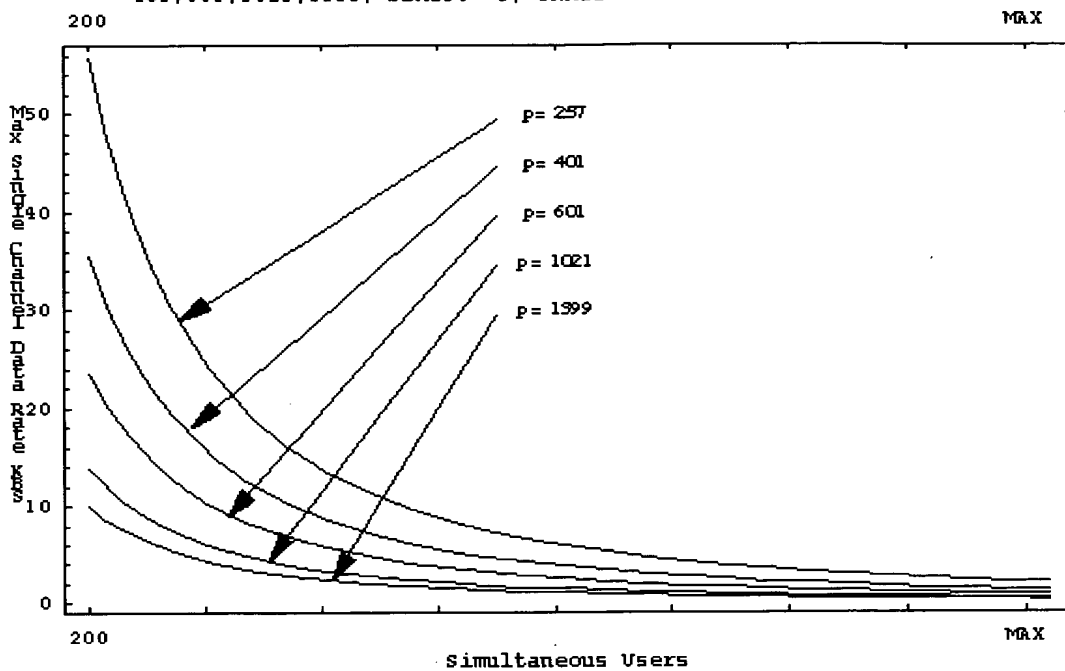
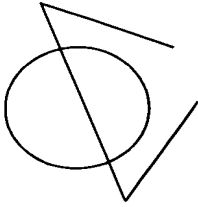
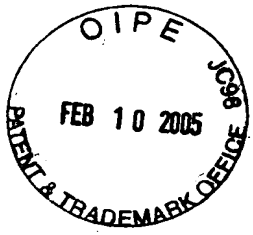


Fig. 11.





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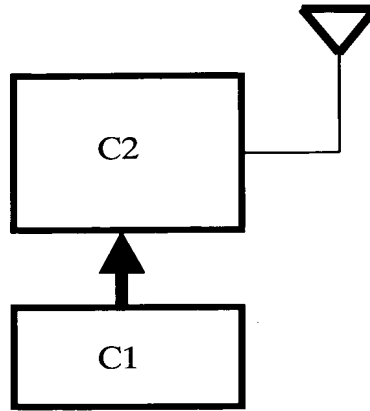


Fig. 12.